## FLIP CHIP PACKAGE WITH HEAT SPREADER ALLOWING MULTIPLE HEAT SINK ATTACHMENT

## Abstract of the Disclosure

A chip package is provided with multiple ways of attaching a heat sink directly to the chip carrier. Corner post are mounted to the surface of the chip carrier. A heat spreading plate, with a surface area substantially the same size as the surface area of the chip carrier, is positioned in thermal contact with the surface of a flip chip, for example. The heat spreading plate has corner cuts to accommodate the corner posts of the chip carrier and notches cut into at least two opposing sides. A heat sink plate with holes extending therethrough at each of its four corners is positioned to allow the corner posts of said chip carrier to extend therethrough. Notches cut in two opposing sides of said heat sink plate are aligned with the notches in said heat spreading plate to create slots for a flexible clip to clamp the assembly together. Alternatively, nuts may also be threaded onto the posts to clamp the assembly together.